

Shouwa 13th year (1938)

## Publication of Application of Utility Model Right No. 13421

Class 45, 2, Respirator

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### Protective poison "mask"

**Brief description of illustration:** Figure 1 is vertical cross sectional drawing of this invention, Figure 2 is disassembled elevation drawing with partial cross section.

**Summary of property, function and effect of the utility model right:** This invention concerns a structure wherein an air intake tube (2) which is attached to a face mask (1) is compressed with a thin sheet metal, end of the tube opening is expanded to outer side and folded back to form a dish shape protruded edge (3), a fitting opening is opened in the end plate (5) of a filtration cylinder (4) and its opening fringe (6) is folded back toward inside, and the protruded edge (3) is fitted in free of mounting and dismounting; and an air intake tube (2) and an exhaust tube (7) are attached to the face mask (1), an exhaust valve (8) is attached to the exhaust tube (7), and the filtration cylinder (4) is made with many air holes (9) on the bottom plate, and is filled with a metal screen (10), filtration cotton (11) and absorbent (12) in its inside, and an end plate (5) is fixed; and the end plate (5) is punched with a fitting opening and the opening (6) is bent toward inside to have a strong spring action along with the dish shape extended folded back protruded edge (3), which slightly expands and shrinks for tight and secure fit.

As described above, this invention has an effect that filtration cylinder is free of mounting and dismounting and connected with air tight and convenient in changing of filtration cotton and absorbent in the filtration cylinder, and the filtration cylinder will not drop off during usage, according to the fitting with strong spring contraction force; because this invention is constituted to fit that an air intake tube which is attached to a face mask is compressed with a thin sheet metal, end of the tube opening is expanded to outer side and folded back to form a dish shape protruded edge, a fitting opening is opened in the end plate of a filtration cylinder and its opening fringe is folded back toward inside.

**Claim:** Structure of protective poison "mask" wherein an air intake tube (2) which is attached to a face mask (1) is compressed with a thin sheet metal, end of the tube opening is expanded to outer side and folded back to form a dish shape protruded edge (3), a fitting opening is opened in the end plate (5) of a filtration cylinder (4) and its opening fringe (6) is folded back toward inside, and the protruded edge (3) is fitted in free of mounting and dismounting.

*Translator's note: This old Japanese document is written in old style Japanese and has no period or comma to separate sentences. This translation was made as close as possible to the original structure to preserve the original message and nuance but periods and commas were added where they should be in modern Japanese for the ease of reading. However, each sentence was not cut short. If a reader has a difficulty in understanding, please contact the translator. I will cut the sentences shorter for the ease of reading and understanding.*

Figure 1

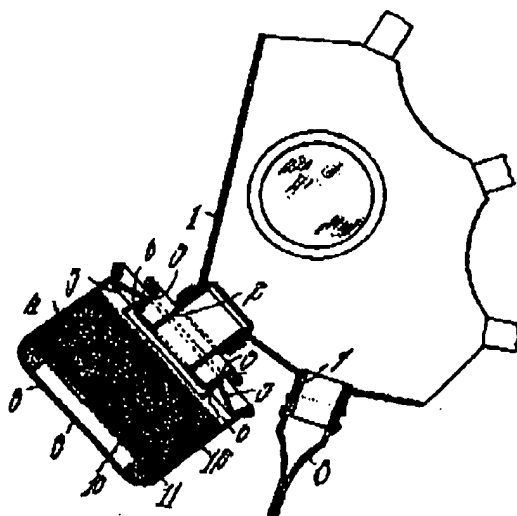
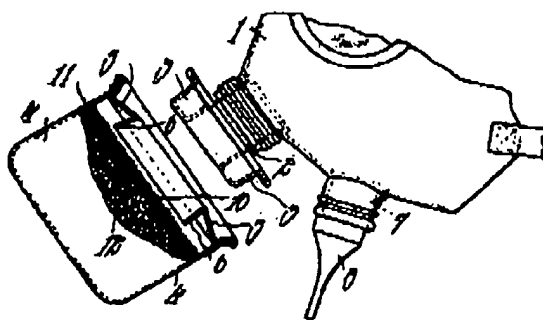


Figure 2



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圖面ノ略解 第一圖ハ本案ノ縦斷側面圖第二圖ハ分解側面圖ニシテ一部切缺ス

實用新案ノ性質、作用及效果ノ要領 本考案ハ覆面工ニ取附ケタル吸氣管工ヲ薄キ金屬板ニテ壓搾シ管口端ヲ外側方ニ擴大シ折返シテ皿狀ノ突縁工ヲ形成シ濾過筒至ノ端板工ニ嵌入口ヲ開穿シ其ノ口縁工ヲ内方ニ折曲シ之レニ突縁工ヲ着脱自在ニ嵌合セシメタル構造ニ係リ覆面工ニハ吸氣管工ト排氣管工トヲ取附ケ排氣管工ニハ排氣弁工ヲ取附ケ濾過筒至ハ底面ニ數多ノ氣孔工ヲ開穿シ内面ニ金網工濾過筒至吸氣側工ヲ填充セシメ端板工ヲ定着ス該端板工ニハ嵌入口ヲ打チ抜キ口縁工ヲ内方ニ折曲シタルモノニシテ皿狀ノ擴大折返シ突縁工ト相俟ツタ強キ彈性作用ヲナシ僅カ擴開收縮シテ硬ク緊密ニ嵌着シ接續セラルモノナリ

本考案ハ以上ノ如ク覆面ニ取附ケタル吸氣管ヲ薄キ金屬板ニテ壓搾シ管口端ニ形成シタル皿狀ノ擴大折返シ突縁工濾過筒ノ端板工

## 防毒「マスク」

昭和十三年 實用新案第 三四三 號

第四十五類 二、呼吸器

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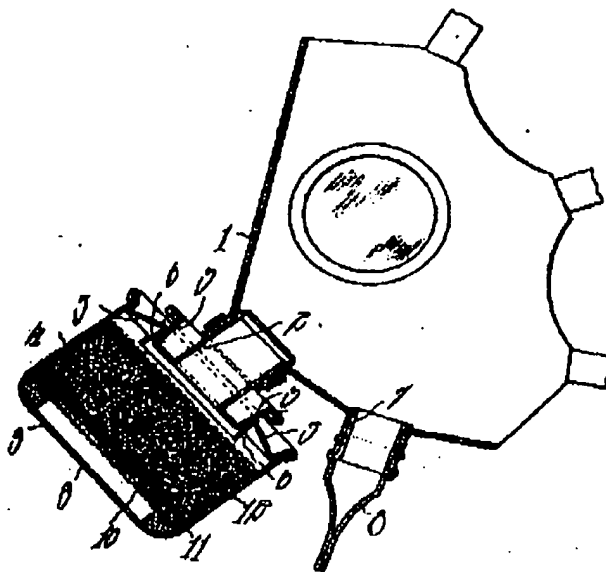
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(特許局發行)

開穿セル嵌入口ノ口縁ヲ内曲シテ嵌合スヘク構成スルヲ以テ濾過筒ハ着脱自在ニシテ氣密的ニ接續セラレ濾過筒内ノ濾過綿及吸氣劑ヲ取換フルニ便利ナリ又強キ彈性的收縮力ニヨリ嵌着スルカ故ニ使用中濾過筒カ脱落スルコトナキ效果アリ

登録請求ノ範圍 圖面ニ示ス如ク覆面工ニ取附ケタル吸氣管工ヲ薄キ金屬板ニテ壓搾シ管口端ヲ外側方ニ擴大シ折返シテ皿狀ノ突縁工ヲ形成シ濾過筒至ノ端板工ニ嵌入口ヲ開穿シ其ノ口縁工ヲ内方ニ折曲シ之ニ突縁工ヲ着脱自在ニ嵌合セシメタル防毒「マスク」ノ構造

圖一第



圖二第

